

**ABSTRACT OF THE DISCLOSURE**

A technique is provided for printing an RFID antenna using conductive ink on a substrate and incorporating that substrate as a layer in a decorative surface such as a high pressure decorative laminate. In addition, a technique is provided for incorporating a conductive mesh into a surface, such as a high pressure decorative laminate, to form an RFID shield which prevents stray signals from reaching an RFID antenna. A technique is also provided for integrating both a printed antenna and conductive mesh shield into a single surface, such as a decorative surface, to allow the reading of desired RFID tags while preventing the reading of undesired RFID tags.

10